

Panel A:
The Future of Optical Networking and
Communications: a 5 - 15 Year Perspective

Long-Term Perspective
Advanced Optical Networking
The Future Internet
etc.

Co-Chairs

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Yesterday, objectives were simple

- Telephone: Circuit switched telecom network
- Computer: Packet switched IP network

But now:

- Multi-services: the Internet? NGN?

Long-term solution is required

Milestone on Advancement of Networks

New Generation Network
New network concept where the existing issues of the architecture of IP networks (e.g. QoS, network control, etc.) are drastically resolved and included the ubiquitous network technologies

Telephone, Broadcasting

Assured quality (voice, video)

Mobile (mobile phone, wireless LAN)

the Internet Best effort (mail, web,...)

Ubiquitous Networks
Cooperation with real world (RF-ID, Sensors)

New Network Architecture

Next generation Network (NGN)
All IP based QoS, Security...

New Generation Network

2000

2005

2010

2015

Points to be discussed:

New Generation Network (NWGN)

- What are the objectives?
- How should we approach?
- What are the technical challenges?
- How to verify them?
- What are the requirements for Testbed?
- What are roles of the Government?